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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

1

of

9

### Complete if Known

Application Number

10/672,585

Filing Date

September 26, 2003

First Named Inventor

Gosselin, *et al.*

Group Art Unit

To be assigned

Examiner

To be assigned

Attorney Docket Number

18085.105102 EMU 120 CIP 3

3455881 1.DOC

### U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pgs, Clmns, Lns, Where Relevant Passages/Relevant Figs Appear
		Number	Kind Code (if known)			
AO	AA	3,116,282	A	Hunter, <i>et al.</i>	12-31-1963	
	AB	3,553,192	A	Gauri, <i>et al.</i>	01-05-1971	
	AC	4,000,137	A	Dvonoch, <i>et al.</i>	12-28-1976	
	AD	4,140,761	A	Gerin, <i>et al.</i>	02-20-1979	
	AE	4,336,381	A	Nagata, <i>et al.</i>	06-22-1982	
	AF	4,818,538	A	Rideout, <i>et al.</i>	04-04-1989	
	AG	4,861,759	A	Mitsuya, <i>et al.</i>	08-29-1989	
	AH	4,879,277	A	Mitsuya, <i>et al.</i>	11-07-1989	
	AI	4,900,828	A	Belica, <i>et al.</i>	02-13-1990	
	AJ	4,916,122	A	Chu, <i>et al.</i>	04-10-1990	
	AK	4,963,533	A	de Clercq, <i>et al.</i>	10-16-1990	
	AL	5,041,449	A	Belleau, <i>et al.</i>	08-20-1991	
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	AN	5,059,690	A	Zahler, <i>et al.</i>	10-22-1991	
	AO	5,089,500	A	Daluge	02-18-1992	
	AP	5,149,794	A	Yatvin, <i>et al.</i>	09-22-1992	
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	AR	5,179,104	A	Chu, <i>et al.</i>	01-12-1993	
	AS	5,185,437	A	Koszalka, <i>et al.</i>	02-09-1993	
	AT	5,194,654	A	Hostetler, <i>et al.</i>	03-16-1993	
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	AX	5,234,913	A	Furman, Jr.	08-10-1993	
	AY	5,248,776	A	Chu, <i>et al.</i>	09-28-1993	
	AZ	5,256,641	A	Yatvin, <i>et al.</i>	10-26-1993	
	AAA	5,270,315	A	Belleau, <i>et al.</i>	12-14-1993	
	AAB	5,276,151	A	Liotta	01-04-1994	
	AAC	5,411,947	A	Hostetler, <i>et al.</i>	05-02-1995	
AO	AAD	5,444,063	A	Schinazi	08-22-1995	

Examiner  
Signature

Date  
Considered

12-6-04

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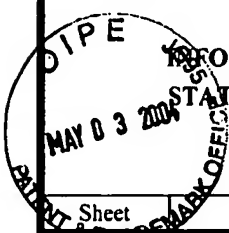
<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Submitted for form 1449/PTO		<b>Complete if Known</b>	
		Application Number	10/672,585
		Filing Date	September 26, 2003
		First Named Inventor	Gosselin, et al.
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
		Attorney Docket Number	18085.105102 EMU 120 CIP 3
Sheet 2	of 9		

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U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pgs, Clms, Lns, Where Relevant Passages/Relevant Figs Appear
		Number	Kind Code (if known)			
<i>AD</i>	BA	5,463,092	A	Hostetler, et al.	10-31-1995	
	BB	5,466,806	A	Belleau, et al.	11-14-1995	
	BC	5,486,520	A	Belleau, et al.	01-23-1996	
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	BH	5,543,391	A	Yatvin, et al.	08-06-1996	
	BI	5,554,728	A	Basava, et al.	09-10-1996	
	BJ	5,587,362	A	Chu, et al.	12-24-1996	
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	BL	5,770,713	A	Imbach	06-23-1998	
	BM	5,770,725	A	Gosselin, et al.	06-23-1998	
<i>AD</i>	BN	5,849,905	A	Gosselin, et al.	12-15-1998	

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Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document DD-MM-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number	Kind Code <sup>2</sup> (if known)				
<del>AD</del>	BO	EP	0 217 580	A2	Wellcome Foundation Ltd.	04-08-1987		
<del>AD</del>	BP	EP	0 285 884	A2	Bristol-Myers Company	10-12-1988		
<del>AD</del>	BQ	EP	0 337 713	B1	Biochem Pharma	10-18-1989		
<del>AD</del>	BR	EP	0 350 287	A2	Vical Inc.	01-10-1990		
<del>AD</del>	BS	EP	0 352 248	A1	Medivir Aktiebolag	01-24-1990		
<del>AD</del>	BT	EP	0 375 329	A2	Wellcome Foundation Ltd.	06-27-1990		
<del>AD</del>	BU	EP	0 382 526	A2	IAF Biochem International	08-16-1990		
<del>AD</del>	BV	EP	0 433 898	A2	Abbott Laboratories	06-26-1991		
<del>AD</del>	BW	EP	0 494 119	A1	IAF Biochem International	07-08-1992		
<del>AD</del>	BX	EP	0 515 144	A1	Biochem Pharma	11-25-1992		
<del>AD</del>	BY	EP	0 515 156	A1	Biochem Pharma	11-25-1992		
<del>AD</del>	BZ	EP	0 515 157	A1	Biochem Pharma	11-25-1992		
<del>AD</del>	BAA	EP	0 526 253	A1	Biochem Pharma	02-03-1993		

Examiner Signature	<i>David Plus</i>	Date Considered	12-6-04
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Submitted for form 1449/PTO

**Complete if Known**

Application Number	10/672,585
Filing Date	September 26, 2003
First Named Inventor	Gosselin, et al.
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	18085.105102 EMU 120 CIP 3

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Sheet 3 of 9

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**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document DD-MM-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number	Kind Code <sup>2</sup> (if known)				
* A10	CA	WO	88/07532	A1	Nycomed	10-06-1988		
	CB	WO	88/08001	A1	Aktiebolaget Astra	10-20-1988		
	CC	WO	89/02733	A1	University of California	04-06-1989		
	CD	WO	90/00555	A1	Vical Inc.	01-25-1990		
	CE	WO	90/12023	A1	Walker; Jones	10-18-1990		
	CF	WO	91/11186	A1	Emory University	08-08-1991		
	CG	WO	91/16920	A1	Vical Inc.	11-14-1991		
	CH	WO	91/17159	A1	IAF Biochem International Inc.	11-14-1991		
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	CO	WO	92/10496	A1	Univ. Georgia Res. Found.	06-25-1992		
	CP	WO	92/10497	A1	Univ. Georgia R.F.; Emory Univ.	06-25-1992		
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	CR	WO	92/14743	A2	Emory University	09-03-1992		
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	CT	WO	92/18517	A1	Yale Univ.; Univ. Georgia R.F.	10-29-1992		
	CU	WO	92/21676	A1	Glaxo Group Ltd.	12-10-1992		
	CV	WO	93/00910	A1	Vical Inc.	01-21-1993		
	CW	WO	93/12128	A1	C.N.R.S.	06-24-1993		
	CX	WO	93/12131	A1	C.N.R.S.	06-24-1993		
	CY	WO	93/12132	A1	C.N.R.S.	06-24-1993		
	CZ	WO	93/24510	A1	C.N.R.S.	12-09-1993		
	CT	WO	94/04154	A1	Univ. Georgia R.F.; Emory Univ.	03-03-1994		
	CU	WO	94/05300	A1	Biochem Pharma Inc.	03-17-1994		
	CV	WO	94/09793	A1	Emory University	05-11-1994		

Examiner Signature

*James Lee*

Date Considered

12-6-04

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				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	4	of	9	Attorney Docket Number	18085.105102 EMU 120 CIP 3

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		Office <sup>3</sup>	Number	Kind Code <sup>2</sup> (if known)				
* ↓ No	DA	WO	94/14456	A1	Biochem Pharma Inc.	07-07-1994		
	DB	WO	94/14802	A1	Biochem Pharma Inc.	07-07-1994		
	DC	WO	94/26273	A1	Hostetler	11-24-1994		
	DD	WO	94/26764	A1	C.N.R.S.	11-24-1994		
	DE	WO	94/27616	A1	Yale University	12-08-1994		
	DF	WO	95/07086	A1	Emory; CNRS; UAB Res. Found.	03-16-1995		
	DG	WO	95/07287	A1	C.N.R.S.	03-16-1995		
	DH	WO	95/11252	A1	C.N.R.S.	04-27-1995		
	DI	WO	95/20595	A1	Univ. Georgia R. F.; Yale Univ.	08-03-1995		
	DJ	WO	96/15132	A1	University of California	05-23-1996		
	DK	WO	96/40164	A1	Emory; UAB Res. Found.; CNRS	12-19-1996		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>6</sup>
* ↓ No	DL	ASSELINE, <i>et al.</i> , "Synthesis and Physicochemical Properties of Oligonucleotides built with either alpha-L or beta-L Nucleotides Units and Covalently Linked to an Acridine Derivative," <i>Nucleic Acids Res.</i> , 19 (15):4067-4074 (1991).		
	DM	AYOOLA, <i>et al.</i> , "Progress in the Control of Viral Hepatitis: Memorandum from a WHO Meeting," <i>Bulletin of the World Health Organization</i> , 66(4):443-455 (1988).		
	DN	BALZARINI, J., "Potent and selective anti-HTLV-III/LAV activity of 2',3'-dideoxycytidine, the 2',3'-unsaturated derivative of 2',3'-dideoxycytidine," <i>et al.</i> , <i>Biochem. Biophys. Res. Comm.</i> , 140(2): 735-742 (October 30, 1986).		
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	DP	BEASLEY, <i>et al.</i> , "Hepatocellular Carcinoma and Hepatitis B Virus," <i>The Lancet</i> , 1129-1133 (1981).		
	DQ	BELLEAU, B., <i>et al.</i> , "Design and Activity of a Novel Class of Nucleoside Analogs...", <i>Intl. Conf. on AIDS</i> , Montreal, Quebec, Canada, June 4-9, 1989.		
	DR	BOUTELJE, <i>et al.</i> , <i>Chemical Abstracts</i> , 108:128048 (1987).		
	DS	CARTER <i>et al.</i> , "Activities of (-)-carbovir and 3'-azido-3'-deoxythymidine against human immunodeficiency virus in vitro," <i>Antimicrob. Agents Chemother.</i> , 34(6):1297-1300 (June 1990).		

Examiner Signature	<i>Andreas</i>	Date Considered	12-6-04
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Sheet	5	of	9	Attorney Docket Number	18085.105102 EMU 120 CIP 3

3455881 1.DOC

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 6
<i>Handwritten: 1/10</i>	EA	CHANG, C., <i>et al.</i> , "Production of Hepatitis B Virus <i>in vitro</i> by Transient Expression ...," <i>EMBO J.</i> , 6(3):675-680 (1987).	
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	EH	CHU, <i>et al.</i> , "Enantiomeric Synthesis of (+)-BCH-189[(+)-(2S,5R)-1-(Hydroxymethyl) 1,3-oxathiolane-5-yl]cytosine] from D-Mannose and Its Anti-HIV Activity," <i>J. Org. Chem.</i> , 56:6503-6505 (1991).	
	EI	CHU, <i>et al.</i> , "Synthesis and Anti-HIV and Anti-HBV Activity of Enantiomerically Pure Oxathiolane Nucleosides," <i>Antiviral Research</i> , 17(S1):2 (March 1992).	
	EJ	CHU, <i>et al.</i> , "Synthesis and Biological Evaluation of D-(2S) and L-(2R)-1,3 Oxathiolanyl-and D-(2R)-and L-(2S)-1,3-Dioxolanyl-Nucleosides as Anti-HIV and Anti-HBV Agents," <i>Antiviral Research</i> , 30(S1):192 (April 1993).	
	EK	COATES, J., <i>et al.</i> , "The Separated Enantiomers of 2'-deoxy-3'-thiacytidine (BCH-189) Both Inhibit Human Immunodeficiency Virus Replication In Vitro," <i>Antimicrob. Agents Chemother.</i> 36(1):202-205 (1992).	
	EL	CRETTON, E., <i>et al.</i> , "Catabolism of 3'-Azido-3'-Deoxythymidine in Hepatocytes and Liver Microsomes, with Evidence of Formation of 3'-Amino-3'-Deoxythymidine a Highly Toxic Catabolite for Human Bone Marrow Cells," <i>Molecular Pharmacology</i> , 39:258-266 (1991).	
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<i>Handwritten: 1/10</i>	EN	DI BISCEGLIE, A.M., <i>et al.</i> , "Hepatocellular Carcinoma," NIH Conference, <i>Annals of Internal Medicine</i> , 108:390-401 (1988).	

Examiner Signature	<i>Handwritten: David R...</i>	Date Considered	<i>Handwritten: 12-6-04</i>
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				Application Number	10/672,585
				Filing Date	September 26, 2003
				First Named Inventor	Gosselin, <i>et al.</i>
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	6	of	9	Attorney Docket Number	18085.105102 EMU 120 CIP 3

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<i>Handwritten: H</i>	FA	DOONG, S.-L., <i>et al.</i> , "Inhibition of the Replication of Hepatitis B virus <i>in vitro</i> by 2',3'-Dideoxy-3'-Thiacytidine and Related Analogues," <i>Natl. Acad. Sci. USA</i> , 88:8495-8499 (1991).	
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	FE	GOSSELIN, <i>et al.</i> , "Improved and New Synthetic Procedures, Methods, and Techniques," <i>Nucleic Acid Chemistry</i> , PJ4, L. B. Townsend and R. S. Tipan, eds, John Wiley & Sons, Inc. (1991), p. 41.	
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	FL	JUROVCIK & HOLY, "Metabolism of pyrimidine L-nucleosides," <i>Nucleic Acid Research</i> , 3(8):2143-2154 (1976).	
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<i>Handwritten: H</i>	FO	KIM, H.O., <i>et al.</i> , "1,3-Dioxolanylpurine Nucleosides (2R,4R) and (2R,4S) with Selective Anti-HIV-1 Activity in Human Lymphocytes," <i>J. Med. Chem.</i> , 36(1):30-37 (1993).	

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				Examiner Name	Unassigned
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<i>HV</i>	GA	KIM, H.O., <i>et al.</i> , "Potent Anti-HIV and Anti-HBV Activities of (-)-L-β-Dioxolane-C and (+)-L-β-Dioxolane-T and Their Asymmetric Syntheses," <i>Tetrahedron Lett.</i> , 33(46):6899-6902 (1992).	
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<i>VHO</i>	GQ	PAI, S.B., <i>et al.</i> , "Inhibition of Hepatitis B Virus by a Novel L-Nucleoside, 2'-Fluoro-5-Methyl-β-L-Arabinofuranosyl Uracil," <i>Antimicrobial Agents and Chemotherapy</i> , 40(2):380-386 (1996).	

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Sheet	8	of	9	Attorney Docket Number	18085.105102 EMU 120 CIP 3

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AO	HA	PERIGAUD, C., <i>et al.</i> , "Equal Inhibition of the Replication of Human Immunodeficiency Virus in Human T-cell Culture by ddA Bis( SATE )phosphotriester and 3'-Azido-2',3'-dideoxythymidine," <i>Biochem. Pharmacol.</i> 48(1):11-14 (July 5, 1994).	
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	HG	SCHINAZI, R.F., <i>et al.</i> , "Comparison of inhibitory activities of various antiretroviral agents against particle-derived and recombinant human immunodeficiency virus type 1 reverse transcriptases," <i>Antimicrob. Agents Chemother.</i> , 33(1):115-117 (January 1989).	
	HH	SCHINAZI, R.F. <i>et al.</i> , "Activities of the Four Optical Isomers of 2',3"-Dideoxy-3'-Thiacytidine ...," <i>Antimicrob. Agents &amp; Chemo.</i> , 36(3):672-676 (1992).	
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HN	HN	SOUDEYNS, H., <i>et al.</i> , "Anti-Human Immunodeficiency Virus Type 1 Activity and Vitro Toxicity of 2'-Deoxy-3'-Thiacytidine...", <i>Antimicrob. Agents and Chemother.</i> , 35(7):1386-1390 (1991).	

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<i>Handwritten: H/D</i>	IA	SPADARI, <i>et al.</i> , "L-Thymidine Is Phosphorylated by Herpes Simplex Virus Type 1 Thymidine Kinase and Inhibits Viral Growth" <i>J. Med. Chem.</i> , 35: no. 22, 4214-4220, (1992).	
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	IH	VOLK, W.A., editor, "Hepatitis," <i>Essentials of Medical Microbiology</i> , J.B. Lippincott Company, (Philadelphia/Toronto) 2 <sup>nd</sup> Ed., pp. 609-618 (1982).	
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	IJ	WATANABE, K.A., <i>et al.</i> , "Synthesis and anti-HIV-1 activity of 2'-"up"-fluoro analogues of active anti-AIDS nucleosides 3'-azido-3'-deoxythymidine (AZT) and 2',3'-dideoxycytidine (DDC)," <i>J. Med. Chem.</i> , 33(8):2145-2150 (August 1990).	
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<i>Handwritten: H/D</i>	IN	ZHU, Z., <i>et al.</i> , "Cellular Metabolism of 3'-Azido-2',3'-Dideoxyuridine with Formation of 5'-O-Diphosphohexase ..." <i>Molecular Pharmacology</i> , 38:929-938 (1990).	

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